

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1-103 (canceled).

104. (Currently Amended): A method of increasing collagen synthesis or lessening the decrease in collagen synthesis in the dermis comprising the oral administration to a human in need thereof of a composition comprising:

i) at least one glycosaminoglycan found in cartilage enzymatic hydrolysate, or a synthetic form of at least one glycosaminoglycan;

ii) at least one polyphenolic, hydrophilic antioxidant found in grape seed or esters thereof; or synthetic form of at least one polyphenolic hydrophilic antioxidant [[and]] or esters thereof; and

iii) lycopene; and

wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant or esters thereof to the lycopene is about 1:1 to about 200:1 and the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant or esters thereof is about 1:1 to about 200:1.

105. (Previously Presented): A method according to claim 104, wherein the at least one polyphenolic, hydrophilic antioxidant is obtained from a grape seed extract.

106. (Previously Presented): A method according to claim 104, wherein said at least one polyphenolic, hydrophilic antioxidant is obtained from at least one natural source.

107. (Cancelled).

108. (Previously Presented): A method according to claim 104, wherein said at least one polyphenolic, hydrophilic antioxidant comprises an oligomeric procyanidol.

109. (Previously Presented): A method according to claim 104, wherein said lycopene is obtained from a tomato variety.

110. (Previously Presented): A method according to claim 104, wherein said lycopene is obtained from a tomato extract.

111. (Previously Presented): A method according to claim 104, wherein said composition further comprises a carotenoid comprising β -carotene, γ -carotene, δ -carotene, zeaxanthin, cryptoxanthine, luteine, xanthophyll, or a combination thereof.

112. (Previously Presented): A method according to claim 104, wherein the composition comprises said lycopene in an amount of 0.1 to 5% wt/wt.

113. (Previously Presented): A method according to claim 111, wherein the composition comprises less than 0.025% β -carotene by weight.

114. (Previously Presented): A method according to claim 104, wherein the composition comprises 0.25-15 mg of the lycopene and further comprises 2.5-100 mg of a grape seed extract.

115. (Previously Presented): A method according to claim 104 wherein said composition comprises 1-2.5 mg of the lycopene, and further comprises 5-50 mg of a grape seed extract and 50-200 mg of a cartilage enzymatic hydrolysate.

116. (Cancelled).

117. (Currently Amended): A method according to 104, wherein said composition further comprises Acerola ~~Acerola~~ extract.

118. -119. (Cancelled).

120. (Previously Presented): A method according to claim 114, wherein said composition comprises 0.75-2.5 mg of the lycopene and 10-30 mg of the grape seed extract.

121. (Previously Presented): A method according to claim 104, wherein said composition is in a form for oral administration comprising tablets, powders, granules, capsules, sachets, solutions, suspensions, tonics of syrups, or a combination thereof.

122. (Previously Presented): A method according to claim 105, wherein the grape seed extract is obtained by using organic solvents.

123. (Previously Presented): A method according to claim 122, wherein said grape seed extract comprises up to 25% w/w of catechin, epicatechin or gallic acid; up to 90% w/w of epicatechin dimer, trimer or tetramer, or gallates thereof, or up to 10% w/w of epicatechin pentamer, hexamer or heptamer, or gallates thereof.

124. (Previously Presented) A method according to claim 104, wherein said glycosaminoglycan is from a cartilage enzymatic hydrolysate obtained by enzymatic proteolytic cleavage of a cartilage.

125. (Previously Presented): A method according to claim 124, wherein said cartilage is selected from the group consisting of bovine cartilage, porcine cartilage, shark cartilage, squid cartilage, chicken cartilage and salmon cartilage.

126. (Previously Presented): A method according to claim 104, wherein said glycosaminoglycan is from a shark cartilage enzymatic hydrolysate obtained by enzymatic proteolytic cleavage of said shark cartilage.

127. (Previously Presented): A method according to any one of claims 104 and 124, wherein said glycosaminoglycan comprises chondroitin ester, a keratan ester, hyaluronic acid or an ester thereof, a dermatan ester, heparin or a heparan ester.

128. (Cancelled).

129. (Previously Presented): A method according to claim 124, wherein the composition further comprises a cartilage enzymatic hydrolysate and a grape seed extract, and the cartilage enzymatic hydrolysate and the grape seed extract are present in a weight/weight ratio in the range of from about 5:1 to 15:1.

130. (Previously Presented): A method according to claim 124, wherein the composition further comprises a cartilage enzymatic hydrolysate and a grape seed extract, and the cartilage enzymatic hydrolysate and the grape seed extract are present in a weight/weight ratio of about 1:2 to 2:1.

131. (Currently Amended): A method according to any one of claims 104 and 124, wherein the composition further comprises a cartilage enzymatic hydrolysate, and the cartilage enzymatic ~~h/drolysate~~ hydrolysate and the lycopene are present in a weight/weight ratio of about 1:2 to 2:1.

132. (Previously Presented): A method according to claim 122, wherein the grape seed extract is obtained by using the organic solvents, evaporating the solvents, re-dissolving a residue in water, and filtering and drying a filtrate.

133. (Previously Presented): A method according to claim 122, wherein the organic solvents are selected from the group consisting of acetone, ethyl acetate and mixtures thereof.

134. (Previously Presented): A method according to claim 104, wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant to lycopene is 2:1 to 100:1.

135. (Previously Presented): A method according to claim 104 wherein the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant is 2:1 to 100:1.

136. (Cancelled).

137. (Previously Presented): A method according to claim 104, which includes a treatment of skin against the signs of skin ageing, and damage resulting from exposure to UV radiation.

138. (Previously Presented): A method according to claim 127, wherein said composition comprises 1-2.5 mg of the lycopene, and further comprises 5-50 mg of a grape seed extract and 50-200 mg of a cartilage enzymatic hydrolysate.

139. (Previously Presented): A method according to claim 129, wherein said composition comprises 1-2.5 mg of the lycopene, 5-50 mg of the grape seed extract and 50-200 mg of the cartilage enzymatic hydrolysate.

140. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant or esters thereof to lycopene is 5:1 to 50:1.

141. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant or esters thereof to lycopene is 5:1 to 20:1.

142. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant or esters thereof to lycopene is 5:1 to 15:1.

143. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant or esters thereof to lycopene is 7:1 to 12:1.

144. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one polyphenolic, hydrophilic antioxidant or esters thereof to lycopene is about 10:1.

145. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant or esters thereof is 5:1 to 50:1.

146. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant or esters thereof is 5:1 to 20:1.

147. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant or esters thereof is 5:1 to 15:1.

148. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant or esters thereof is 7:1 to 12:1.

149. (Currently Amended): A method according to claim 104, wherein the weight ratio of the at least one glycosaminoglycan to the at least one polyphenolic, hydrophilic antioxidant or esters thereof is about 10:1.

150. (New) A method according to claim 105, wherein the grape seed extract and lycopene are in weight/weight ratio of about 5:1 to 15:1.

151. (New): A method according to claim 104, wherein the composition consists essentially of:

i.) at least one glycosaminoglycan found in cartilage enzymatic hydrolysate, or a synthetic form of at least one glycosaminoglycan;

- ii.) at least one polyphenolic, hydrophilic antioxidant found in grape seed or esters thereof; or synthetic form of at least one polyphenolic hydrophilic antioxidant or esters thereof; and
- iii) lycopene.